

Positioning according to the main disease groups

OSA
(Obstructive Sleep Apnea)



Obesity - Hypoventilation - COPD
Neuromuscular Disorder



Complicated Breathing Pattern
such as : CSR, CSA, Mixed Apnea
and Complex Apneas



ICU - Subacute - Emergency



Optimize the treatment efficiency

C-Flex clinical references:

- Jerrentrup, Somnologie 10: 61-66, 2006
- Aloia, Chest June 2005 127: 6

Clinical references for BiPAP with Bi-Flex and BiPAP Auto with Bi-Flex:

- Ballard R., Gay P., Strollo P., Journal of Behavioral Sleep Medicine, 2007
- Paul Wylie, APSS 2006
- Gentina, Abstract 1559, ERS 2007
- Blau, Fietze, Abstract 1558, ERS 2007

Auto-TRAK clinical reference:

- A.Battisti et al., CHEST vol.127,p.1784-1792 May 2005 Issue

AVAPS Clinical reference:

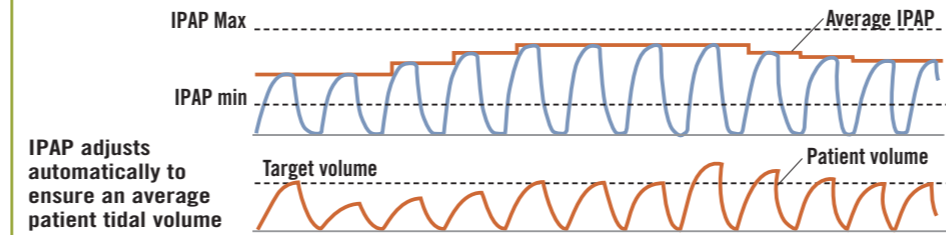
- JH Storre et al., MD. CHEST.Volume130.Number 3.Sep-tember 2006

Hospital Clinical references:

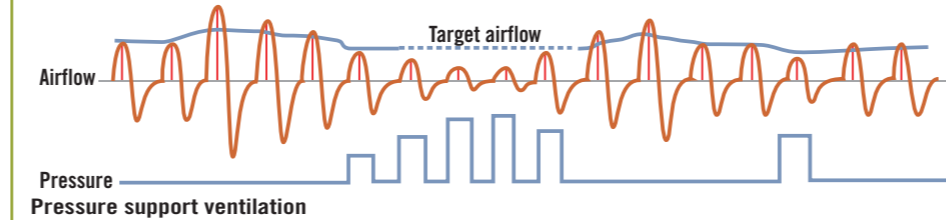
- Intensive Care Medicine 2001, 27:166-178

Resironics technologies

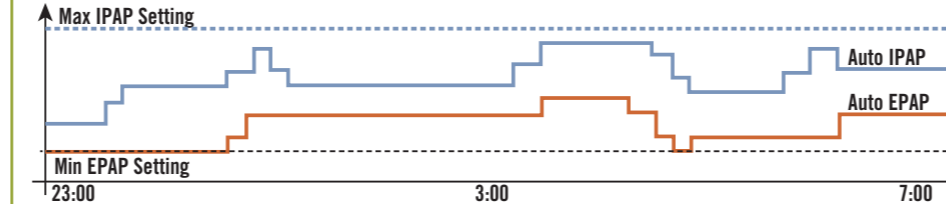
AVAPS™ for Obesity, Hypoventilation, COPD Patients



Servo ventilation mode for Complicated Breathing Pattern

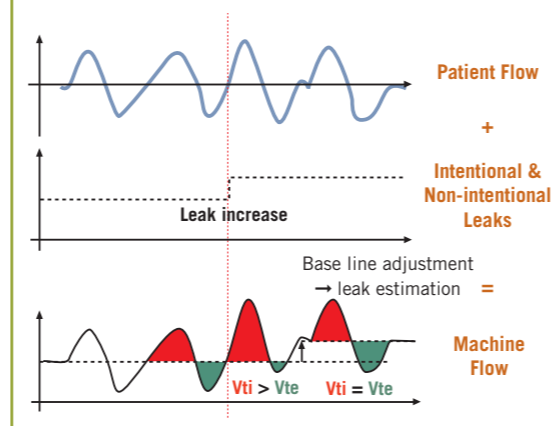


Auto BiPAP Therapy for OSA Patients



EPAP and IPAP are automatically and independently adjusted to eliminate Apnea, Hypopnea, Flow Limitations and snoring

Digital Auto-TRAK™ for Patient ventilation



Resironics, REMstar, Bi-Flex, BiPAP, Harmony, Synchrony, Vision and Encore are registered trademarks and C-Flex, autoSV, AVAPS and Auto-TRAK are trademarks of Resironics and its affiliates.

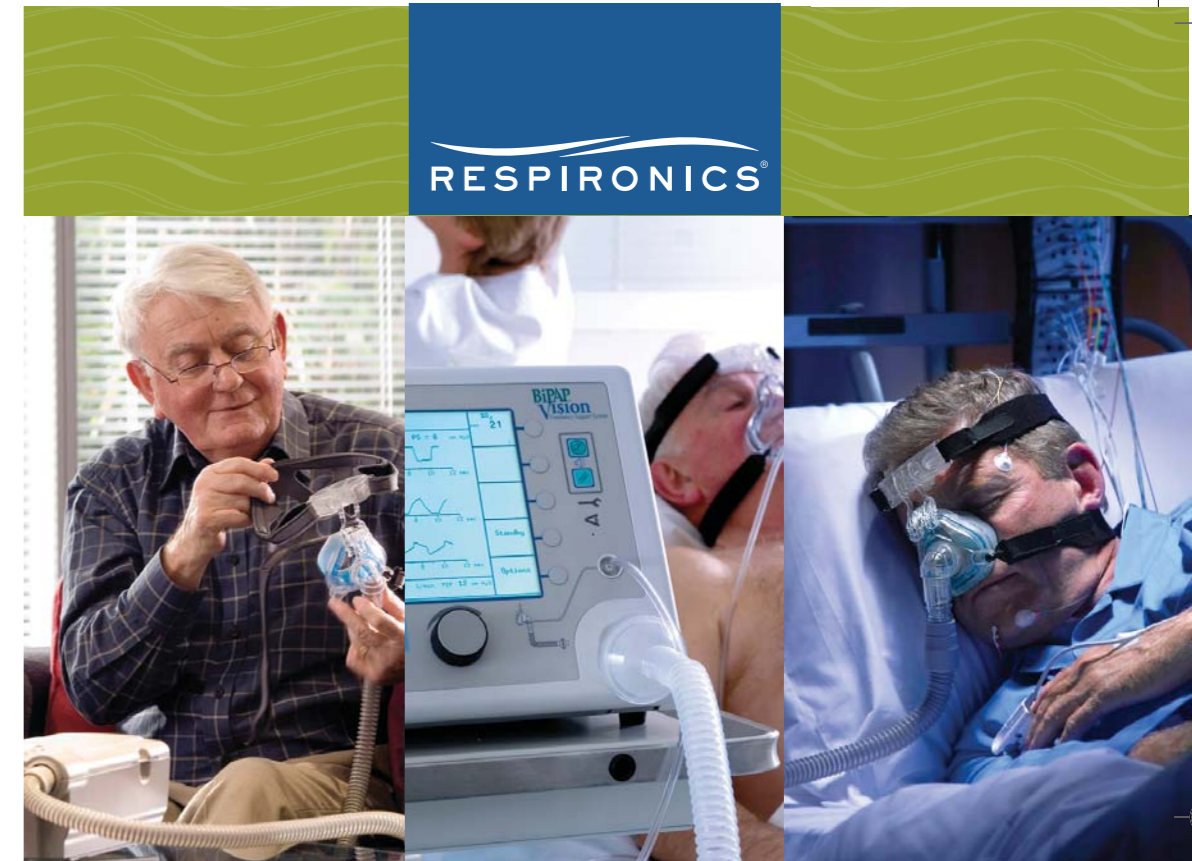
©2007 Resironics, Inc. and its affiliates. All rights reserved.

RESPIRONICS

Resironics Inc.: +1-724-387-4000
Resironics Europe, Africa, Middle East: +33-1-47-52-30-00
Resironics Germany: +49-8152-93 06-0
Resironics France: +33-2-51-89-36-00
Resironics Italy: +39-03-62-63-43-1
Resironics UK: +44-800-1300-845
Resironics Asia Pacific: +852-3194-2280
Resironics Australia: +61-2-9666-4444

WWW.RESPIRONICS.COM
MSERIES.RESPIRONICS.COM
COMFORTSERIES.RESPIRONICS.COM

RIT.ST.010 E



WHICH THERAPY FOR WHICH PATIENT?

H O M E C A R E



REMstar® Pro MSeries with C-Flex™



REMstar® Auto / A-Flex MSeries with C-Flex™ and A-Flex



BiPAP® Auto MSeries with Bi-Flex®

H O M E C A R E



BiPAP® autoSV™



BiPAP® Harmony®

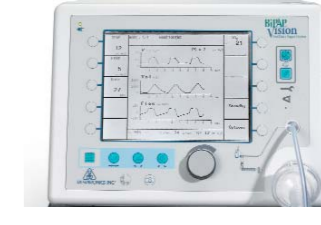


BiPAP® Synchrony®

H O S P I T A L



BiPAP® Focus™



BiPAP® Vision®

	H O M E C A R E			H O M E C A R E			H O S P I T A L	
MODES TARGET PATIENTS	OSA	OSA	OSA (Patients unable to tolerate and/or non-responsive to CPAP)	Complicated Breathing Pattern such as: CSR, CSA, Mixed Apnea and Complex Apneas	COPD Obesity - Hypoventilation Overlap syndrome	COPD, Overlap Syndrome, Restrictive respiratory syndromes: obesity-hypoventilation, neuromuscular disorders, chest deformities, etc.	Chronic and Low acuity NIV treatment in Hospital environment: obesity-hypoventilation, neuromuscular disorders, chest deformities, acute pulmonary oedema, etc.	Full acuity NIV ventilation spectrum (Chronic, Low & Severe acuity): COPD acute decompensation, Cardio Pulmonary Edema, Post-Operative, Post-Extubation, Weaning
ALGORITHM & TECHNOLOGIES	Fixed CPAP	Fixed CPAP Auto CPAP	BiPAP S Auto BiPAP S	Setup possible as: CPAP, CPAP + Servo Ventilation, BiPAP S, BiPAP ST and BiPAP + Servo Ventilation	CPAP, S [spontaneous], S/T [spontaneous / timed]	CPAP, S, S/T, PC [pressure control], T	S/T, CPAP	S/T, CPAP, PAV [Proportional Assist Ventilation]
SETTINGS	Digital Auto-TRAK™	Digital Auto-TRAK™ Reacts to apnea, hypopnea, flow limitation and snoring. Security for non-responsive events (central apnea, for example) in order to limit the rise in pressure.	Digital Auto-TRAK™ EPAP auto (apnea, snoring) IPAP auto (hypopnea, airflow limitation) Security for non-responsive events IPAP / EPAP delta (automatically varies between 2 cmH ₂ O and 8 cmH ₂ O)	Digital Auto-TRAK™ Automatic calculation of target air flow Automatic ventilatory pressure support EPAP fixed Back up rate auto or fixed	Digital Auto-TRAK™	AVAPS™ (Average Volume Assured Pressure Support) (Hybrid ventilation which automatically adjusts the inspiratory pressure from one cycle to the next to ensure a pre-set averaged tidal volume) Digital Auto-Trak™	Digital Auto-TRAK™ All-in-one Large screen with ventilator settings and relevant patients datas & informations	Digital Auto-TRAK™ PAV (automatic pressure ventilation adjustment optimizing patient physiological compliance to the ventilator) FiO ₂ up to 100% for full spectrum acuity ventilation treatment Graphical screen with full ventilators settings, patients ventilatory informations & breathing curves
Encore Pro DATA	C-Flex™ Pressure	Min. and Max. Pressures C-Flex™ level in CPAP/Auto CPAP modes A-Flex level in Auto CPAP mode Ramp	Minimal EPAP, maximal IPAP (Maximum delta between EPAP and IPAP), Bi-Flex® level, ramp	EPAP (4 - 25 cmH ₂ O), IPAP min / IPAP max (4 - 30 cmH ₂ O), Respiratory rate security (auto or fixed: 4-30 BPM), Ti [timed inspiration] (0.5 - 3.0 secs), Rise time (100 - 600 ms)	IPAP (4-30 cmH ₂ O), EPAP (4 - 25 cmH ₂ O), Rise time (100 - 600 ms), RR (0-30 BPM), Ti (0.5 - 3.0 secs)	IPAP (4 - 30 cmH ₂ O), EPAP (4 - 25 cmH ₂ O), RR (0-30 BPM), Ti (0.5 - 3.0 secs), Rise time (100 to 600 ms), Additional settings for AVAPS: IPAP max, IPAP min, Target VT (200 - 1500 ml)	IPAP (4 - 30 cmH ₂ O), EPAP (4 - 25 cmH ₂ O), Rise time (100 to 600 ms), Backup rate (0 - 30 in S/T mode), Ti max (0.5 - 3.0 secs in S/T mode)	IPAP (4 - 40 cmH ₂ O), EPAP (4 - 20 cmH ₂ O), Rise time (50 to 400 ms), Backup Rate (0 - 30 in S/T mode), Ti max (0.5 - 3.0 secs in S/T mode), FiO ₂ of 21% to 100%
SCREEN	Date/time, hours of use, usage patterns, AHI, leak, snore, FOSQ	Date/time, hours of use, usage patterns, AHI, leak, snore, FOSQ, 90% Pressure	Date/time, hours of use, usage patterns, AHI, leak, snore, FOSQ, 90% Pressures (EPAP, IPAP)	IPAP, EPAP, % of Cheyne-Stokes Respiration / night, AHI, respiratory rate, tidal volume, % of triggered cycles, leaks, minute ventilation	Encore® Pro: trends on pressures, respiratory rate, tidal volume, leaks, % of triggered cycles, minute ventilation and alarms	Not applicable	Not applicable	Not applicable
ALARMS	Pressure, Sessions > 4 hours, average compliance and leaks (last 7 and 30 days)	Pressure, Sessions > 4 hours, average compliance, leaks and 90% pressure (last 7 and 30 days)	Pressure, Sessions > 4 hours, average compliance, leaks and 90% pressures (last 7 and 30 days)	Pressures, leaks, respiratory rate, expired tidal volume, minute ventilation	Pressures	Pressures, leaks, respiratory rate, expired tidal volume, minute ventilation	Pressure Bar graph Alarms informations Inspiratory triggering (Patient or Machine)	Pressure, Volume & Flow curves Detailed alarms informations % Patient triggering breath Ti/Ttot - FiO ₂
BATTERY	Patient disconnection (leak)	Patient disconnection (leak)	Patient disconnection (leak)	Apnea, patient disconnection, low minute volume	Apnea, patient disconnection	Apnea, patient disconnection, low tidal volume, low minute ventilation	Apnea, patient disconnection	Apnea, patient disconnection, high and low breathing rate, high and low pressure Low minute ventilation
	External battery pack (24 hours autonomy at 10 cmH ₂ O)	External battery pack (24 hours autonomy at 10 cmH ₂ O)	External battery pack (24 hours autonomy at 10 cmH ₂ O)	External battery pack (7 hours of autonomy at 4 EPAP / 20 IPAP)	External battery pack (7 hours autonomy at 4 EPAP / 20 IPAP)	External battery pack (7 hours autonomy at 4 EPAP / 20 IPAP)	Internal battery for backup operation in case of AC power failure	Not applicable

Humidifier available in option

MODES TARGET PATIENTS

ALGORITHM & TECHNOLOGIES

SETTINGS

Encore Pro DATA

SCREEN

ALARMS

BATTERY